



(CSE131) Computer Programming
Sophomore CESS
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Team (26) Major Task

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1. Overview:

The **Crime Investigation Management System** is being used to report all the crimes. Whenever a crime or any unwanted activity is being suspected then the system will record the activity and save it as a reference for further assistance. The system also keeps track of all the criminals from their past to present in order to maintain a good environment and so that in future if the criminal does any crime then the police can use the database which is being already stored in the servers for assisting that criminal activity.

2. Deliverables:

Functions:

1 – User Login (Username, Password):

a. **Admin**→ The admin is an authorized person with privileges to all the activities which had been recorded into the database or all the motions that had been saved. Not every common person has the right to check all the motions, images and all the activities and data that have been recorded into the system database.

b. **Officer**→ He can check his assigned cases and the criminal records only.

2 – Add New Record

3 – Delete A Record

4 – Display All Records

5 – Update/Modify Any Existing Record

6 – Search For Any Existing Record

7 – Program Continuously Loop Until User Exit The Problem

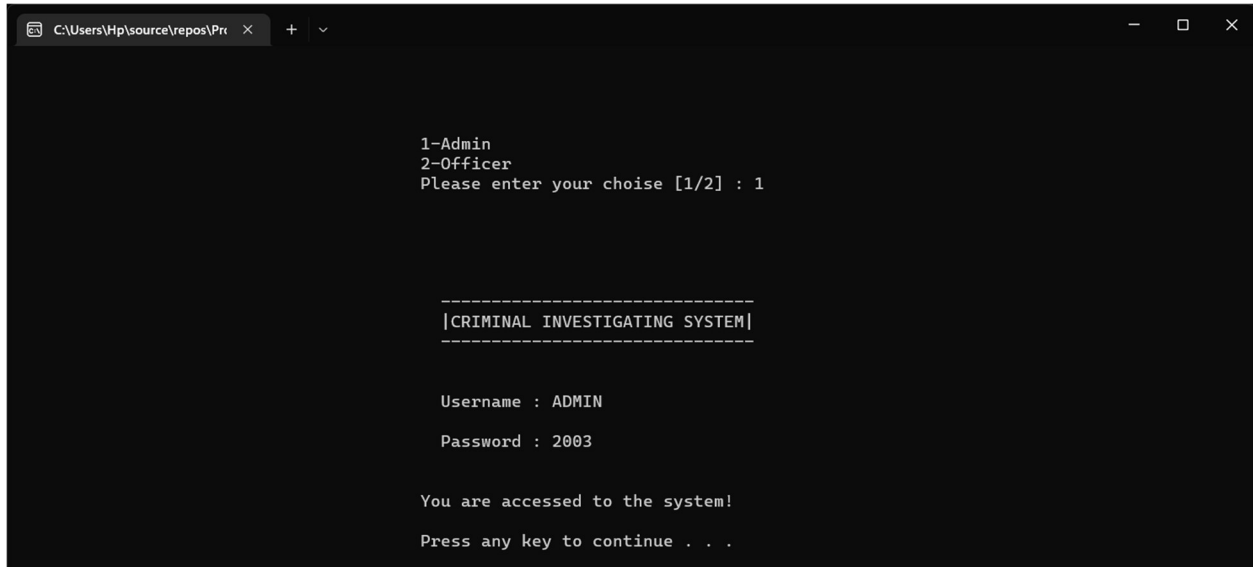
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4. How To Use Our Program:

1- Login Page

Cin >> "1"



```
C:\Users\Hp\source\repos\Pri >
1-Admin
2-Officer
Please enter your choise [1/2] : 1

-----
|CRIMINAL INVESTIGATING SYSTEM|
-----

Username : ADMIN
Password : 2003

You are accessed to the system!
Press any key to continue . . .
```

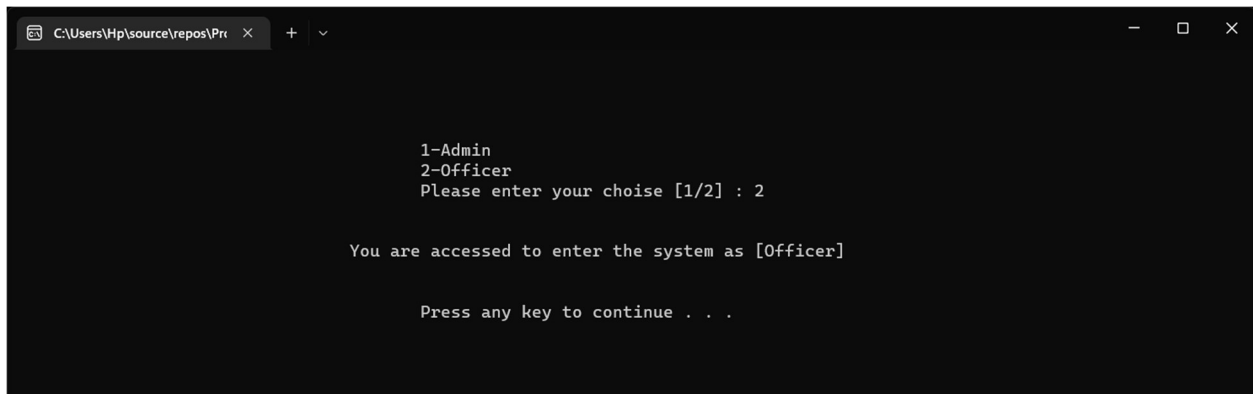
Figure 1 Admin Login

- 1- Choose whether you are logging in as an **ADMIN** or **OFFICER** by entering a number [1/2].
- 2- If you are an **ADMIN** you need to enter a username & password.

Username	ADMIN	The User Has 3 Tries To Enter Admin Login Info If User Happen To Enter The Info More Than Limit The Program Will Exit Automatically!
Password	2003	

- 3- If you are logging in as an **OFFICER** you don't need to enter a username or a password.

Cin >> "2"



```
C:\Users\Hp\source\repos\Pri >
1-Admin
2-Officer
Please enter your choise [1/2] : 2

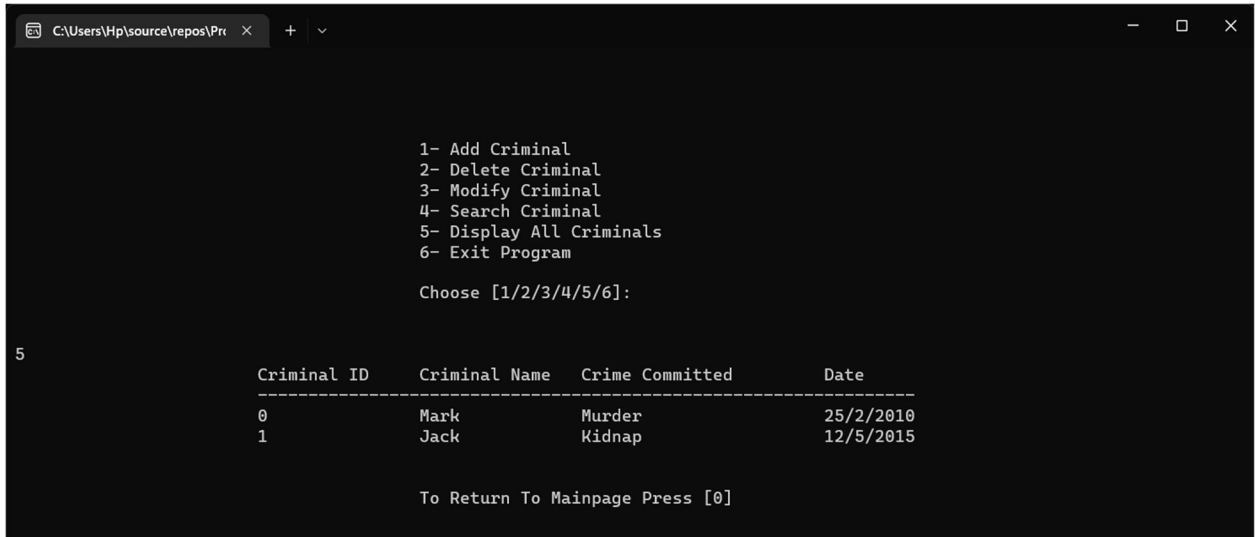
You are accessed to enter the system as [Officer]

Press any key to continue . . .
```

Figure 2 Officer Login

2- Display All Records

Cin >> "5"



```
C:\Users\Hp\source\repos\Pri x + v

1- Add Criminal
2- Delete Criminal
3- Modify Criminal
4- Search Criminal
5- Display All Criminals
6- Exit Program

Choose [1/2/3/4/5/6]:

5

Criminal ID    Criminal Name    Crime Committed    Date
-----
0             Mark            Murder             25/2/2010
1             Jack            Kidnap             12/5/2015

To Return To Mainpage Press [0]
```

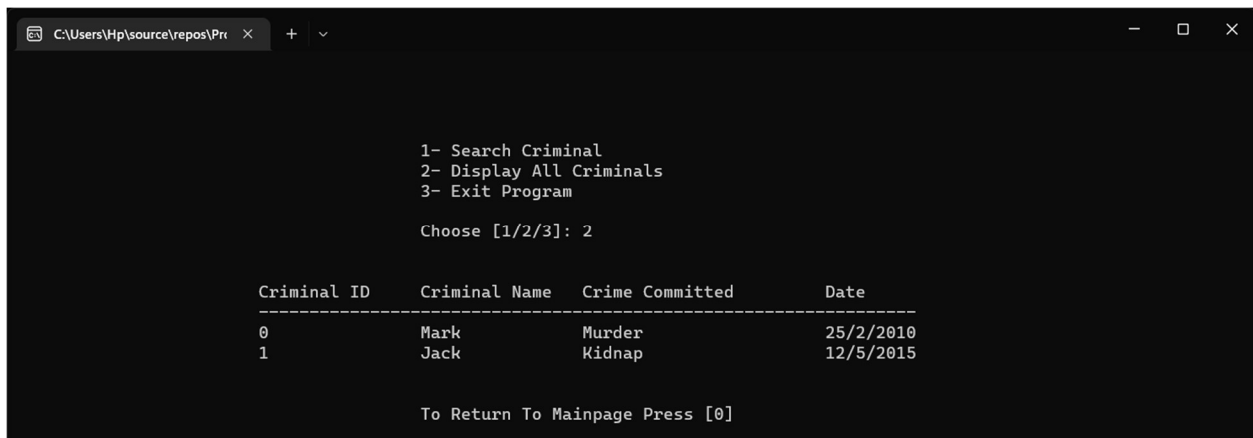
Figure 3 Admin Display All Records

1- We hard coded two records:

Criminal ID	Criminal Name	Crime Committed	Date
0	Mark	Murder	25/2/2010
1	Jack	Kidnap	12/5/2015

2- The output is displayed in a form of a table, we used **cout** function to do so.

Cin >> "2"



```
C:\Users\Hp\source\repos\Pri x + v

1- Search Criminal
2- Display All Criminals
3- Exit Program

Choose [1/2/3]: 2

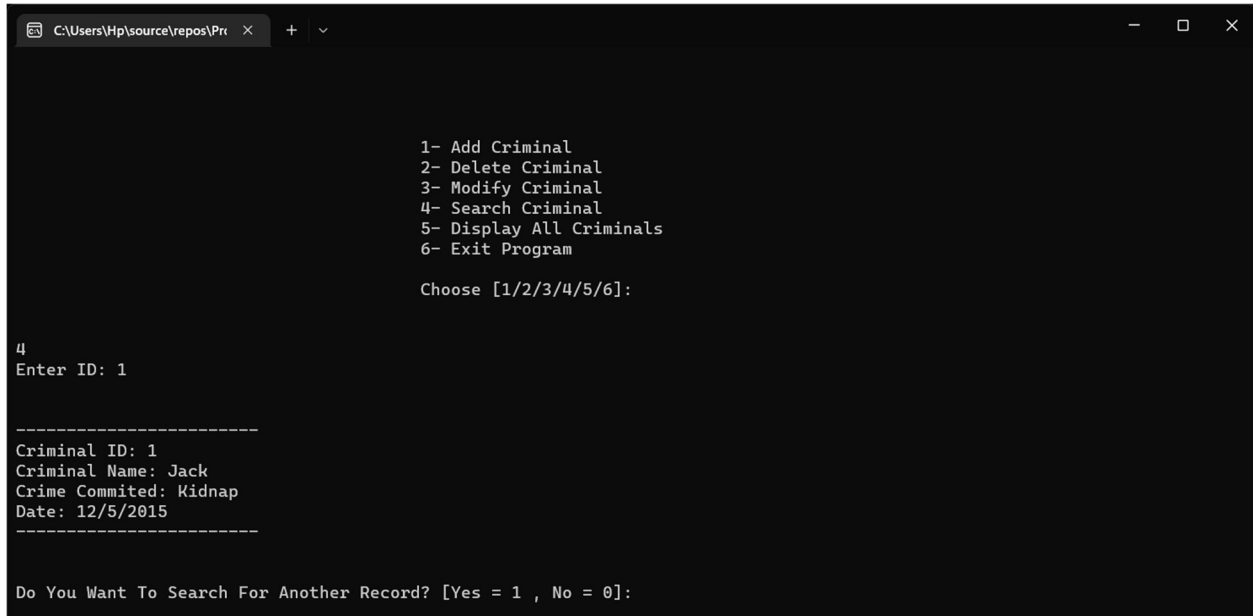
Criminal ID    Criminal Name    Crime Committed    Date
-----
0             Mark            Murder             25/2/2010
1             Jack            Kidnap             12/5/2015

To Return To Mainpage Press [0]
```

Figure 4 Officer Display All Records

3- Search Record

Cin >> "4"



```
C:\Users\Hp\source\repos\Pri x + v

1- Add Criminal
2- Delete Criminal
3- Modify Criminal
4- Search Criminal
5- Display All Criminals
6- Exit Program

Choose [1/2/3/4/5/6]:

4
Enter ID: 1

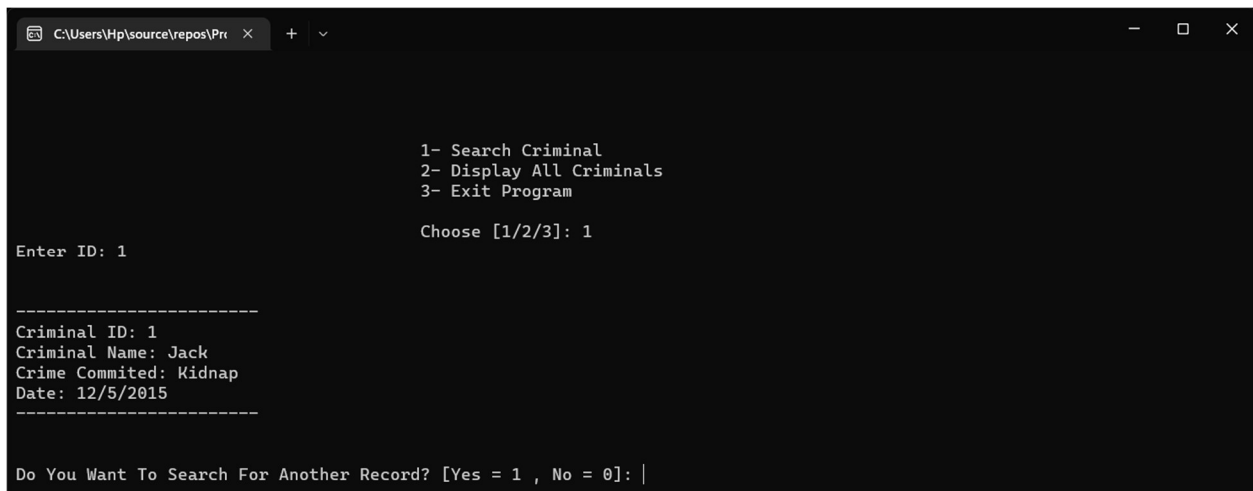
-----
Criminal ID: 1
Criminal Name: Jack
Crime Committed: Kidnap
Date: 12/5/2015
-----

Do You Want To Search For Another Record? [Yes = 1 , No = 0]:
```

Figure 5 Admin Search for A Record

- 1- In the search function the user is asked to enter a **Criminal ID** to search for it in the records array
- 2- The **Criminal ID, Criminal name, Crime Committed & Date** is then displayed.
- 3- If by any means the ID was not found a message will be displayed **ID NOT FOUND!**

Cin >> "1"



```
C:\Users\Hp\source\repos\Pri x + v

1- Search Criminal
2- Display All Criminals
3- Exit Program

Choose [1/2/3]: 1

Enter ID: 1

-----
Criminal ID: 1
Criminal Name: Jack
Crime Committed: Kidnap
Date: 12/5/2015
-----

Do You Want To Search For Another Record? [Yes = 1 , No = 0]: |
```

Figure 6 Officer Search for A Record

4- Modify Record

Cin >> "3"



```
C:\Users\Hp\source\repos\Pri > 3
1- Add Criminal
2- Delete Criminal
3- Modify Criminal
4- Search Criminal
5- Display All Criminals
6- Exit Program
Choose [1/2/3/4/5/6]:

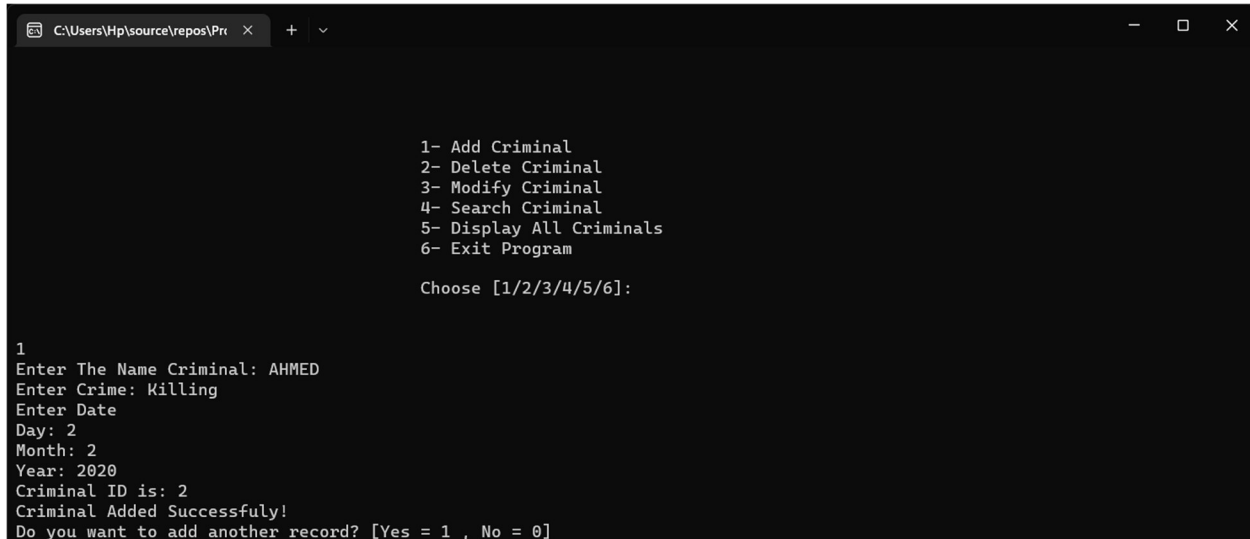
3
Enter ID: 1
1- Modify Name
2- Modify Crime
3- Modify Date
Choose [1/2/3]: 1
Enter The Name Criminal: MOSTAFA
Do You Want To Make Another Modification? [Yes = 1 , No = 0]:
```

Figure 7 Modify Record

- 1- In the modify function we ask the user to enter a **Criminal ID** which he wishes to modify.
- 2- If the Criminal ID was not found a message will appear **ID NOT FOUND!**
- 3- If Criminal ID was found the user is given 3 choices:
 - a. Modify Name
 - b. Modify Crime
 - c. Modify Date
- 4- After entering the modification and pressing enter the user will be asked if he wished to do another modification for the **SAME Criminal ID**.
- 5- If user wishes to make another modification for a **different Criminal ID**, he must exit the Modify option and enter it again to change Criminal ID desired.

6- Add Record

Cin >> "1"



```
C:\Users\Hp\source\repos\Pri x + v

1- Add Criminal
2- Delete Criminal
3- Modify Criminal
4- Search Criminal
5- Display All Criminals
6- Exit Program

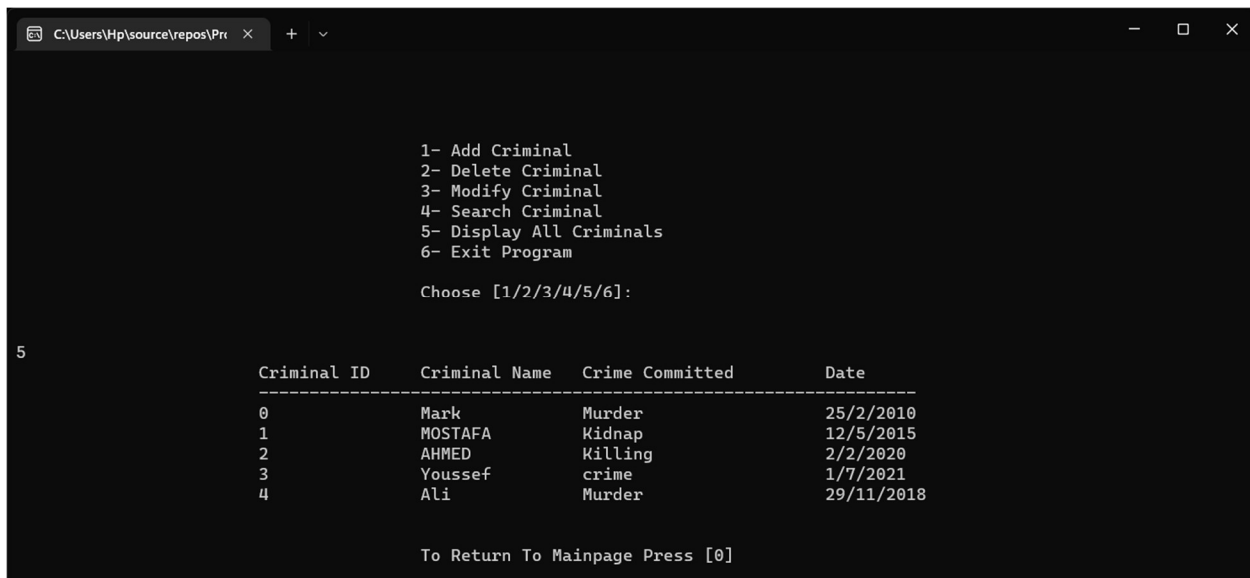
Choose [1/2/3/4/5/6]:

1
Enter The Name Criminal: AHMED
Enter Crime: Killing
Enter Date
Day: 2
Month: 2
Year: 2020
Criminal ID is: 2
Criminal Added Successfully!
Do you want to add another record? [Yes = 1 , No = 0]
```

Figure 8 Adding A Record

- 1- In the Add Record function the user is asked to enter information about:
 - a. Criminal Name
 - b. Crime Committed
 - c. Date (D – M – Y)
- 2- The program provides the user with a Criminal ID, so we can avoid 2 problems:
 - a. The User from entering the same Criminal ID another time.
 - b. Not scrambling the array when deleting.

The following screenshot for display all function after adding some records



```
C:\Users\Hp\source\repos\Pri x + v

1- Add Criminal
2- Delete Criminal
3- Modify Criminal
4- Search Criminal
5- Display All Criminals
6- Exit Program

Choose [1/2/3/4/5/6]:

5

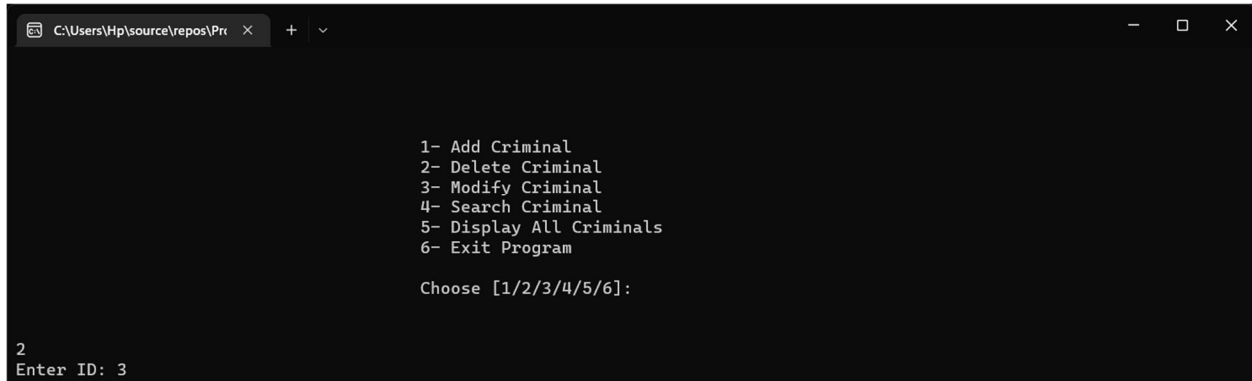
Criminal ID    Criminal Name    Crime Committed    Date
-----
0              Mark            Murder             25/2/2010
1              MOSTAFA         Kidnap             12/5/2015
2              AHMED           Killing            2/2/2020
3              Youssef         crime              1/7/2021
4              Ali             Murder             29/11/2018

To Return To Mainpage Press [0]
```

Figure 9 Display All After Adding Records

6- Delete Record

Cin >> "2"



```
C:\Users\Hp\source\repos\Pri x + v

1- Add Criminal
2- Delete Criminal
3- Modify Criminal
4- Search Criminal
5- Display All Criminals
6- Exit Program

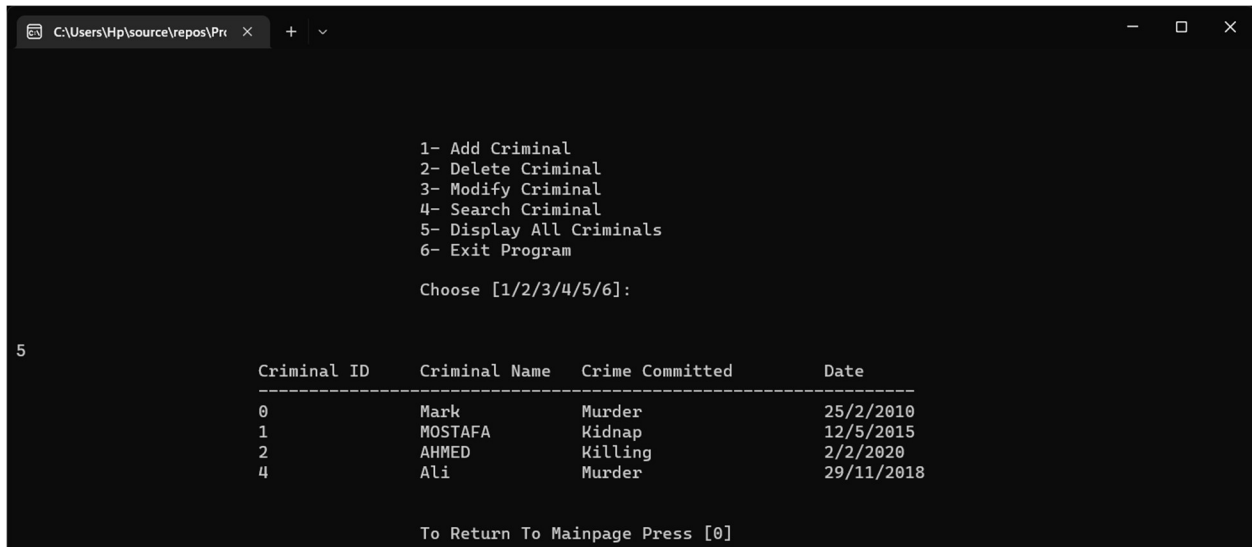
Choose [1/2/3/4/5/6]:

2
Enter ID: 3
```

Figure 10 Deleting A Record

- 1- In the Delete Record function the user is asked to enter **Criminal ID** to be deleted.

The following screenshot for display all function after deleting a record



```
C:\Users\Hp\source\repos\Pri x + v

1- Add Criminal
2- Delete Criminal
3- Modify Criminal
4- Search Criminal
5- Display All Criminals
6- Exit Program

Choose [1/2/3/4/5/6]:

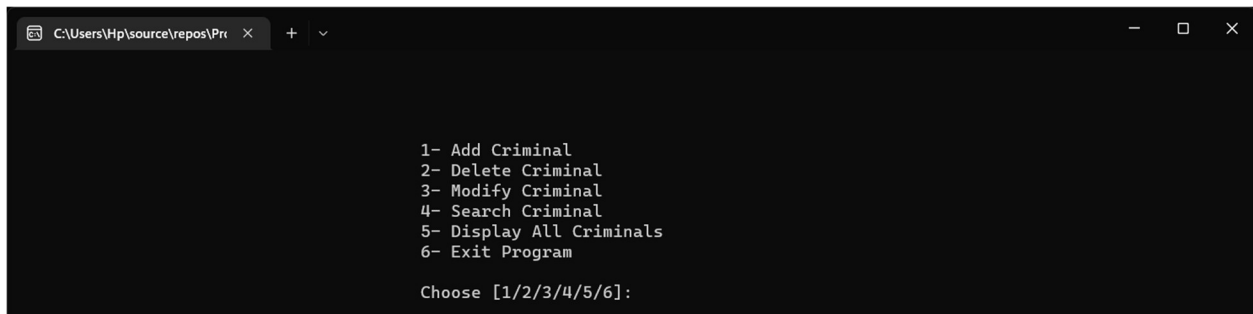
5

Criminal ID    Criminal Name    Crime Committed    Date
-----
0             Mark             Murder              25/2/2010
1             MOSTAFA          Kidnap              12/5/2015
2             AHMED            Killing              2/2/2020
4             Ali              Murder              29/11/2018

To Return To Mainpage Press [0]
```

Figure 11 Display All After Deleting ID = 3

7- Program Looping

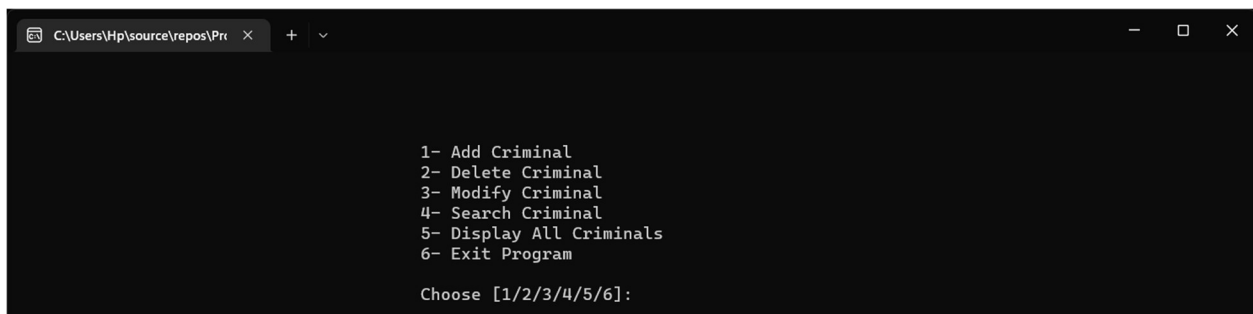


```
C:\Users\Hp\source\repos\Pri X + v
1- Add Criminal
2- Delete Criminal
3- Modify Criminal
4- Search Criminal
5- Display All Criminals
6- Exit Program
Choose [1/2/3/4/5/6]:
```

- 1- After each Function/Option the program **automatically returns to the same menu page** until user chooses to Exit Program

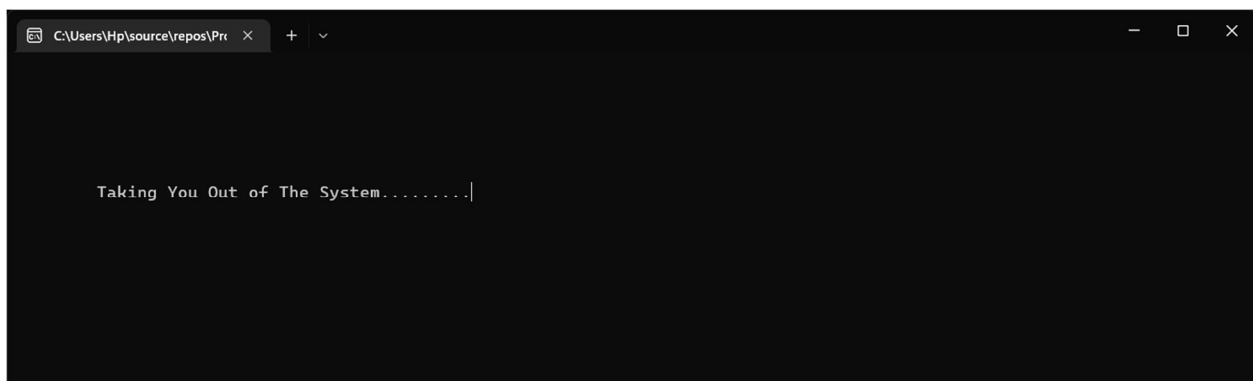
8- Exiting Program

Cin >> "6"



```
C:\Users\Hp\source\repos\Pri X + v
1- Add Criminal
2- Delete Criminal
3- Modify Criminal
4- Search Criminal
5- Display All Criminals
6- Exit Program
Choose [1/2/3/4/5/6]:
```

- 1- If user enters option 6 the program will redirect user to the final window before exiting the program completely. **(Shown In the Screenshot Below)**.



```
C:\Users\Hp\source\repos\Pri X + v
Taking You Out of The System.....|
```

Figure 12 Final Window & Program Closes